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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/812,552	03/29/2004	Takashi Moriyama	CFA00069US 3398	
7590 09/22/2006		EXAMINER		
Canon U.S.A. Inc., Intellectual Property Department 15975 Alton Parkway Irvine, CA 92618-3731			OSORIO, RICARDO	
			ART UNIT	PAPER NUMBER
			2629	
			DATE MAILED: 09/22/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
Office Action Commence	10/812,552	MORIYAMA, TAKASHI			
Office Action Summary	Examiner	Art Unit			
	RICARDO L. OSORIO	2629			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period was Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be time Till apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 29 Ma	arch 2004.				
	action is non-final.				
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closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
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Disposition of Claims					
4) Claim(s) 1-18 is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-3,5-14 and 16-18</u> is/are rejected.					
7) Claim(s) <u>4 and 15</u> is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.					
or claim(s) are subject to restriction and/or	election requirement.				
Application Papers					
9) The specification is objected to by the Examiner.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) ☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12)☑ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)☑ All b)☐ Some * c)☐ None of:					
1. Certified copies of the priority documents	s have been received.				
2. Certified copies of the priority documents		on No			
3. Copies of the certified copies of the prior	ity documents have been receive	ed in this National Stage			
application from the International Bureau	(PCT Rule 17.2(a)).	-			
* See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)	_				
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date					
(2) ☐ Notice of Dransperson's Patent Drawing Review (PTO-948) Faper Notice of Information Disclosure Statement(s) (PTO/SB/08) 5) ☐ Notice of Informal Patent Application					
Paper No(s)/Mail Date <u>6/23/04</u> , <u>& 7/14/2004</u> .	6) Other:	• •			
2.00					

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 2. Claims 1-3, 5, 6, 10-14, and 16-18 are rejected under 35 U.S.C. 102(a) as being anticipated by Wong et al. (6,943,773).

Regarding claims 1 and 12, Wong teaches of an information device comprising a flexible display unit capable of displaying information having page information in units of pages (Fig. 1, character 20, and col. 3, lines 40-43); a detection unit configured to detect at least one of a bending direction, an amount of bending, and a duration that the display unit is bent (Fig. 4, reference character 130, col. 3, lines 40-56, col. 5, lines 9-24, and col. 6, lines 16-49); and a scroll determination unit configured to determine whether page scrolling has been input based on the detected at least one of the bending direction, the amount of bending, and the duration that the flexible display unit is bent, and for updating the information output on the display unit when it is determined that page scrolling has been input (col. 3, lines 50-60).

Regarding claims 2 and 13, Wong teaches that a speed at which the information is updated is based on the amount of bending (col. 3, lines 50-56).

Regarding claims 3 and 14, Wong teaches that the duration of the bending is a duration of time for which the amount of bending exceeds a predetermined value (col. 5, lines 22-25, col. 7, lines 50-52, and col. 8, lines 24-26).

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Regarding claims 5 and 16, Wong teaches that if the bending direction is opposite a predetermined direction, it is determined that the user input a reverse scroll request and the new page information is information occurring prior to the page information displayed on the flexible display unit (col. 6, lines 16-49, and col. 9, lines 4-22).

Regarding claim 6, Wong teaches that the detection unit is provided at each of two portions of the display unit (col. 6, lines 32-49, and col. 9, lines 15-22).

Regarding claims 10 and 17, Wong teaches that the flexible display unit displays information in a single-sided format (col. 6, lines 39-44).

Regarding claims 11 and 18, Wong teaches that the flexible display unit displays the information in a double-sided format (col. 8, line 59-col. 9, line 22).

Claim Rejections - 35 USC § 103

3. Claims 7-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wong. Regarding claims 7-9, Wong does not specifically teach of the sensor being a piezoelectric polymer that is polyvinylidene fluoride.

However, Wong teaches that the sensor is being deflected (see col. 5, lines 15 and 16).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have the deflectable sensor of Wong made of polyvinylidene fluoride, or any other well known in the art of polymer sensors, since these sensors are commonly known to be highly flexible and practical for use in an environment such as the flexible display.

Allowable Subject Matter

4. Claims 4 and 15 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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The following is a statement of reasons for the indication of allowable subject matter: Claims 4 and 15 are allowable since certain key features of the claimed invention are not taught or fairly suggested by the prior art. In claim 4, "it is determined that page scrolling has not been input when the bending direction is opposite a predetermined direction". In page 15, "if the bending direction is opposite a predetermined direction, it is determined that the user input is not a scroll request". The closest prior art, Wong (see rejection above) singularly or in combination fails to

anticipate or render the above underlined limitations obvious.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ricardo L. Osorio whose telephone number is 571-272-7676. The examiner can normally be reached on Monday through Thursday from 7:00 A.M. to 5:30

P.M. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bipin Shalwala whose telephone number is 571-272-7681.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

571-273-8300 (for Technology Center 2600 only)

Hand-delivered responses should be brought to the Customer Service Window at the

Randolph Building, 401, Dulany Street, Alexandria, VA 22314.

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Information Retrieval (PAIR) system. Status information for published applications may be

obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Technology Division: 2629

RLO

September 15, 2006

RICARDO OSORIO

PRIMARY EXAMINER